

Summary of use in Ten Lakes WSA 1977-2015
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No.	Unit	time frame	activity	Area covered	year	measure	reference	page	Doc #
10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
30,000	snowmobiles		sold	US	1963	Historic snowmobile sales			437
60,000	snowmobiles		sold	US	1965	Historic snowmobile sales			437
120,000	snowmobiles		sold	US	1966	Historic snowmobile sales			437
165,000	snowmobiles		sold	US	1967	Historic snowmobile sales			437
250,000	snowmobiles		sold	US	1968	Historic snowmobile sales			437
					1968	"I started snowmobiling in the Grave Creek area in 1968. The machines didn't have the power they do today so we liked for the spring when the snow got hard and we could go any place we wanted. We spent hours in Therriault Pass playing on the slides. Everybody lived to get up to wolverine lakes in the spring. Three wasn't near as many avid sno mobile fan's as there is now. May be because maney was a little harder to come by. We spent many hours up at wolverine lakes and just playing in the Grave Creek Area. People involved were..." includes a list of 28 names.	Donald Rosaaen; response to 1950, October 20, 2008 information request by Murphy Lake Ranger Station		291
				Scenic Area (1968)	1968	"Winter Use: The number of sno-mobilers has increased tremendously in the past several years and winter use of this area shold be considered.".... From the winter use already shown on the north end, people counts indicate there may be a higher winter use than in the summer.	Weeden, District Ranger, November 14, 1968 (DOC 401)	page 2	401
460,000	snowmobiles		sold	US	1969	Historic snowmoible sales			437
255	People	summer	hike/ stock	Bluebird & Wolverine trails	1970	Trail registers at Bluebird and Wolverine Trails showed 236 people hiked and 19 people rode horese over these two trails in 1970. Of course some pieple did not sign the register. At the other four minor access points no numbers were collected."	January 13, 1971 Murphy lake Ranger Station letter on 'results of the questionnair on the Ten Lakes Scenic Area'.	page 2	21
262	People		over snow	Ten Lakes WSA	1970	Draft Ten Lakes WSA Historic Snowmoible Usage Report; list of individual names			438
19	People	trip	summer	Wolverine Lake	1970	"When a September trip through the area which we planned for Lincoln and Flathead County hikers was postponed due to a sudden early winter storm, my son and I hiked to Wolverine Lakes to gain some idea of the use of the area under those conditions; we learned that despite the snow and cold winds, 19 people (men, women, students, and small childern) visited the lakes that day.	Weydemeyer, 1970	page 3	405
			scooters and snowmoibles	Scenic Area (1968)	1970	"How can the public assist the Forest Service in controlling unauthorized use of motor scooters and snowmoibles in the area (This is occurring, and it is not possible for the Forest Service adequately to patrol the area or keep check on the several access points.)	Weydemeyer, 1970	page 4	405

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10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
					1970	"Misuse by people - In one verified instance, motorized vhciles disrupted vegetation and fragil meadow in the Ten Lakes, near paradise lake. Here a moto bike wa ridden through the meadow in the early season while still wet....?"	Weeden, District Ranger, January 6, 1970	page 1	243
					1970	"I bought a brand new 1968 snowmobile. I rode into all these areas in 1968-71 in 1972 I got a new 1972 snow cat & rode still into these area's. 4 or 5 of us from Wfish & Eureka stayed at weasel cabin 3-4 days at a time, hauled extra gas. Usually in Jan-Feb & March". Weasel cabin outside WSA)	Edward St. Onge; response to 1950, October 20, 2008 information request by Murphy Lake Ranger Station		293
264	snowmobiles		over snow	Ten Lakes	1970	List of Names: The following people are known to have snowmobiles in the Ten Lakes Area during the late 1970's; list includes 264 names.	Draft: Ten Lakes Wilderness Study Area Historic Snowmobile Usage Report, February 2013		438
587,000	snowmobiles		sold	US	1971	"We peaked at 600,000 plus sleds" "Ironically, despite the lowered sales expectations, the actual number of North American snowmobilers remains fairly consistent with more than 1.4 million registrations in the US. Although a decade earlier there were about 1.6 million registered units, the drop hasn't been as precipitous as sales".			437
9	Average Daily Traffic	day	vehicles	Big Therriault	1972	Hand written Traffic Counts 8/20 through 9/8 1972. 170.5 vehicles over 20 days.			346
50	Average Daily Traffic	day	vehicles	Grave Creek Road	1972	Hand written Traffic Counts July 17 through Aug 20, 1694 vehicles, 49.8 ADT, located in Bunchgrass area			346
4	People	trip	over snow	Foundation Creek	1972	News Paper Article 3/9/1972; Party of 2 snowmobilers/ 4 people trapped by slide in Foundation Creek, spent night in Weasel Cabin	Doc 260	page 1	260
60	snowmobiles	year	over snow	Grave Creek, wolverine lakes, Therriault pass, Weasel lake, Weasel cabin	1972	"1972-1979 Dec, Jan, Feb, March; 10 times per year, 6 snow cats (Grave creek, Weasel lake/cabin outside WSA)	Ron Holder; response to 1950, October 20, 2008 information request by Murphy Lake Ranger Station		292
10	People	trip	over snow	Clarence Creek/Blue Sky area	1973	Local news paper "enjoying a snowmobile excursion Saturday in the Clarence Creek and Blue Sky areas were (10 names)" 3 of ten were from whitefish and guests for weekend. Part of group went snowmobiling again Sunday.	In local & Social, Tobacco Valley News, 3/15/ 1973		452
2,125	snowmobiles	week	over snow	Eureka	1973	"Now figuring approximately 400 snowmoibles in this area, and if an average of 250 of these people go out snowmobiling once a week,"; 250/week all Eureka, 1/3 to 1/2 estiamte to Ten Lakes, 17 week season 1 - 17*250=4,250, 1/3 is 1,417 and 1/2 is 2,125.	Tobacco Valley News, Eureka, Montana March 27, 1973		452

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10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
					1973	Areas used: Pinkham Mt cleared areas, Mount Marston, Boulder Mountain, Webb Mt, "The best known area and the one probably most used by snowmoiblers, is the Stahl basin, Wigwam and Wesel Lake area. Snowmoibles from all over western Montana use this as a western recreation area. Some stay overnight or over the wekend at Wesel cabin..... Another nice trip is through Stahl basin to Therriault Pass, down to Therriault Lake, and on through the Wigwam and the will bring you back to the Divide Creek area. This trip should not be attempted by novice dirivers, or without several snowmoibles along....."	Tobacco Valley News, Eureka, Montana March 15, 1973		452
11,000	snowmobiles	year	registered	Montana	1973	"Montana is a long way down the line with 11,000. I would make a guess that after this season, the total is increased by more than 1500 snowmoibles."	Tobacco Valley News, Eureka, Montana March 27, 1973		452
	snowmobiles		over snow	Ten Lakes	1973" Listed several areas with "The best known area and the one probably most used by snowmobilers, is the Stahl basin, Wigwam and Weasel Lake area..." "another nice trip is Stahl basin into Therriault Pass, down to Therriault Lake"	Tobacco Valley News, Eureka, Montana March 27, 1973		452
16	people	weekend	hike	Bluebird Trailhead	1974	"Trail users do not seem to be registering. We saw over ten hikers in two days; another party reported encountering sixteen the previous weekend. Yet we found that no parties had registered during the entire month of July at the registration box just west of Little Therriault Lake." Bluebird Trail#83	Report on the Ten Lakes Area, University of Montana August 2, 1974		453
4	Parties		summer	Ten Lakes	1974	"During our visit we saw one group of three boys who were fishing and had planned a two-day stay. We also encountered a father with sons and friends who were fishing and backpacking and a thrird party consisting of a family that was camping in the Scenic Area. We saw track of another horst party. However, at the registration box, no parties had entered their names."	Ten Lakes Area, Journal 8/3/74		242
32,317	Visitor days		all	Eureka-Grave Creek Planning Unit	1974		WSA Wilderness Character Assessment 2003		198
550	Visitor days		over snow	Ten Lakes WSA	1974	"Recreation use in the area in S.393 was 9290 visitor days in 1974. The major activities were hunting, horse use, hiking, and berry picking. Cycling and snowmobiling account for 550 visitor days in the area"	2320 wilderness and Primitive Areas, Montana wilderness Area Study Bill (S.393)	AR, Vol. 4, Book 6, Sec 9, Doc 75	411
9,290	visitor days		all	Ten Lakes WSA	1974	"Recreation use in the area in S.393 was 9290 visitor days in 1974. The major activities were hunting, horse use, hiking, and berry picking. Cycling and snowmobiling account for 550 visitor days in the area"	2320 wilderness and Primitive Areas, Montana wilderness Area Study Bill (S.393)	AR, Vol. 4, Book 6, Sec 9, Doc 75	411

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2,674	Visitor days		non-motorized		1974		WSA Wilderness Character Assessment 2003		198
1,880	Visitor days		over snow		1974		WSA Wilderness Character Assessment 2003		198
				Wolverine	1974	"There is a primitive cabin at Wolverine Lake. It attracts considerable use as indicated by the lack of vegetation around the cabin".			242
630	People	week	summer	Eureka-Grave Creek Planning Unit	1975	Recreation use of the planning unit is primarily by local people from northeastern Lincoln County and Flathead County. During the peak season from July 4 through Labor Day, weekly use is estimated at 630 people. The heaviest use is weekends and holidays.	Multiple Use Plan, Eureka-Grave Creek Planning Unit	17	368
180	Vehicles	week	ALL	Grave Creek Road	1975	Traffic counts indicate that an average of 180 vehicles per week use the Grave Creek Road for recreation purposes during the peak of the summer season.	Multiple Use Plan, Eureka-Grave Creek Planning Unit	6	368
913	visitor days average annual			Eureka-Grave Creek Planning Unit	1975	On going Alt. C Recreation Use	Multiple Use Plan, Eureka-Grave Creek Planning Unit		368
				Eureka-Grave Creek Planning Unit	1975	"Recreation use of the planning unit is primarily by local people from north eastern Lincoln County and Flathead County"	Multiple Use Plan, Eureka-Grave Creek Planning Unit	17	368
					1975	"The Grave Creek drainage with its tributaries and Wigwam River area receive extensive use by snowmobilers during the winter months. Most of this actively is confined to the roaded portions of the unit, since the snow-filled roads and clearcuts provide good access and excellent play areas."	Multiple Use Plan, Eureka-Grave Creek Planning Unit	17	368
					1975	"There has also been a dramatic increase in winter visits to the unit with the increased availability and popularity of over-snow machines."	Multiple Use Plan, Eureka-Grave Creek Planning Unit	20	368
				Grave Creek	1975	road counter info in question			345
				Ten Lakes scenic area with additions	1975	Management Unit #2 guidance "Motorized vehicle use of the area will be limited to snowmobiles. This use will be permitted during the period December 1 to April 15. The use of other mechanized equipment will only be permitted when authorized specifically by the Forest Supervisor..."	Multiple Use Plan, Eureka-Grave Creek Planning Unit	27	368
			trail bike	Grave Creek	1975	Public Demands 'Trail Bike riding.... Determined to have low or casual demand'	Multiple Use Plan, Eureka-Grave Creek Planning Unit	page 21	308
16,854	snowmobiles	year	registered	Montana	1975	"In Montana, snowmoible registrations have increased from 16,854 in 1975 to 23,169 as of July, 1977."	1978 Montana Statewide Comprehensive Outdoor Recreation Plan (SCORP), Montana Department of Fish & game	131	193
85	Average Daily Traffic	day	vehicles	Grave Creek	1976	Nonrecording portable traffic ounts 5/3 to 11/17, 1976. periods varied from 30-85 ADT	R1-5610-27		347

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10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
14	People	trip	over snow	Wolverine	1976	"Enjoying a couple of weekends of snowcatting into the Wolverine cabin were (list of 14 names)	News Paper 2/12/1976		260
9,200	visitor days		all	Ten Lakes WSA	1976		1920 Land and Resource Planning S. 393 Public Issues		18
					1976	Q11 Do you use the KNF? 54 No. of persons answered question, 53, Yes, 1 No; What do you use the Forest for? 52 No. of persons answered question, Recreation 42, Hunting & fishing 10, Wood 1, employment 14.	Opinions of the Citizens of Lincoln County as they relate to the Management of the Kootenai National Forest and the functioning of Lincoln County government, June 4, 1976		40
					1976	40 percent increase in Recreation Use, and 125% increase in motorized use, in the planning unit (western Montana) from 1967-1976	Western Montana, Planning Area Analysis, Northern Region, March 1978		141
96	Average Daily Traffic	day	vehicles	Grave Creek	1977	Nonrecording portable traffic counts 5/9 to 10-/26. Periods varied from 33-96 ADT	R1-5610-27		347
0.78	Number of occasions per capita		snowmobiling participation rate	Region 1 F&G	1977		1978 Montana Statewide Comprehensive Outdoor Recreation Plan (SCORP), Montana Department of Fish & game		193
8,300	Recreationists	annually	people	Grave Creek Road	1977	"Our R.I.M. report for 1977 indicates that 8300 recreationists travel the Grave Creek Road annually, traffic counter data shows that traffic (excluding logging traffic) has nearly doubled in the last three years".	Environmental Analysis Report - Stahl-Grave Timber sale 2/20/1979	pg 25	11
16	snowmobiles	trip	over snow	Stahl, Clarence Creeks	1977	"After the prom 1977; The next day we all took our prom dates snow catting. There was a bunch of us this trip. We only made it to about as far as where the 3rd clear cut on Stahl is now. The snow was too deep and we couldn't go any farther that day....." Includes a list of 16 names + additional	Butch Gewyn; response to 1950, October 20, 2008 information request by Murphy Lake Ranger Station		295
4	snowmobiles	trip	over snow	Grave Creek	1977	"We would leave at night when very cold to get up with old cats" includes list of 4 names, pre 1977	Pat Stoken; response to 1950, October 20, 2008 information request by Murphy Lake Ranger Station		302
	snowmobiles		over snow	Project Area	1977	"Lots of family Trips"	Petereson, Ken		296
70,344	Total Participation		Snowmobiling	Region 1 F&G	1977		1978 Montana Statewide Comprehensive Outdoor Recreation Plan (SCORP), Montana Department of Fish & game		193
8,300	Recreationists	annually	travel	Grave Creek Road	1977	"Our R.I.M. report for 1977 indicates that 8300 recreationists travel the Grave Creek Road annually, traffic counter data shows that traffic (excluding logging traffic) has nearly doubled in the last three years".			11
23,169	snowmobiles	year	registered	Montana	1977	"In Montana, snowmobile registrations have increased from 16,854 in 1975 to 23,169 as of July, 1977."	1978 Montana Statewide Comprehensive Outdoor Recreation Plan (SCORP), Montana Department of Fish & game	59	193

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10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
13	snowmobiles	trip	over snow	Weasel Cabin, wolverine lakes	1978	"In the spring of 1978 a bunch of local kids planned a weekend trip to Weasel Cabin. We snowcated in on Friday night and stayed till Sunday afternoon. Most of our riding took place right around Weasel cabin. At that time you could ride anywhere in the clear cuts just to the northeast of the cabin. made a trip to the wolverines that weekend also. The snowcats at that time didnt go as good as the modern ones today. We had to do most of our riding in the morning...." references 13, with 11 names included	Butch Gewyn; response to 1950, October 20, 2008 information request by Murphy Lake Ranger Station		295
13,600	Visitor days		all	Ten Lakes expanded scenic area (outside WSA)	1978		Ten Lakes Montana wilderness Study Act Area Summary	Page III-2	372
3,600	Visitor days		all	Ten Lakes WSA	1978		Doc 18, recreation		18
26,000	Visitor days		Bicycle	Forest	1978	RIM data 0.6% of total			223
217,000	Visitor days		Ice-snow craft	Forest	1978	RIM data 4.8% of total			223
38,000	Visitor days		Scooter-Motorcycle	Forest	1978	RIM data 0.2% of total (4,481,000 total use not accuate) Indicates relationship between types of uses, not accuate number of users.			223
100	Average Daily Traffic	day	vehciles	Grave Creek Road	1979	"The Grave Creek Road is a single lane road with turnouts. The average daily traffic, without logging traffic, is approaching 100 which is considered maximum for safety on a single-lane road (FSM7721.1)"	Environmental Analysis Report - Stahl-Grave Timber sale 2/20/1979	7	11
3,300	RVD			Ten Lakes	1979	FY 79 RVD's (from RIM Special Report No. 23, 3/3/1980) 3300 RVD, 15,7000 Acres. We estimated PMC at .40 for PRIMMRC and .06 for SPNMRC;	Criteria for the Analysis of the Management Situation Volume 4 (Appendix 4) coefficients, KNF, February 1981	Page D-4	24
					1979	"The SCORP (1983) provides 1979 non-resident & resident activity days by actionvty for the state as a whole." Copy of the 1983 SCORP found.	Development of a response to State of Montana comments on the Kootenai nationaol Forest Plan and Deis, Recreation use Projectson, June 24, 1986		22
11	RVD (M)			Ten Lakes WSA (S393)	1980	"AMS comparison for first decade (average annual outputs) Recreation-Dispersed (potential Capacity; 1980 program and Current management"	Analysis of the management Situation, Kootenai National Forest, September 1981	Appendix 2	45
1	RVD (MM)			Forest	1980	Alternative level, current situation "Dispersed Recreation Average Annual Potential", (Non-motorized MMRVD 0.264, Motorized MMRVD 0.474)	Analysis of the management Situation, Kootenai National Forest, September 1981	Appendix 3, page 68	45

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10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
9,200	Visitor days		all	Ten Lakes expanded scenic area (outside WSA)	1981 Expansion of the original Scenic Area to around 16,000 acres. The expanded scenic area as well as the original scenic area has opportunities for hiking, nature study, camping horseback riding, fishing, and hunting. The Ten Lakes expanded scenic area including the adjacent campgrounds (outside the WSA) receives much visitor use; approximately 9,200 visitor days in 1981....	Ten Lakes Montana wilderness Study Act Area Summary	Page III-2	372
16,700	Visitor days		all	Ten Lakes expanded scenic area (outside WSA)	1981		Ten Lakes Montana wilderness Study Act Area Summary	Page III-2	372
10,944	snowmobiles	year	registered	Montana	1981	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
8	Average Daily Traffic	day	vehicles	Lewis Creek Road 114	1982	Traffic Count Records 9/2/82 through 11/3/82, 61 day, 477 total count, 1.2 mi from jct 315 (? Sunday creek)			428
13	snowmobiles	day	over snow	Flathead/ Lincoln counties	1982	Average snowmoibles per day on groomed routes (8 areas)	Snowmobile Grooming Report		312
8	vehicles	day	vehicles	Lewis Creek Road 114	1982	Hand writte notes traffic camera sites, Lewis Creek road #114, 426 vehicles 9/2-11/3, 53 days; 85% rec use, remaining logging/admin			443
14,046	snowmobiles	year	registered	Montana	1982	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
1,150	snowmobiles	12 day February	over snow	Grave Creek Groomed Trail*	1983	Counter reading difference/ actual use (use by date, day, time, counter reading) 9.5 mile marker on Grave Creek trail/road, 2/17-3/31 42 days. Total counter 842/2 way traffic = 421. 421 counter/42 day= 10/day; 115 day season*10=1,150	Montana Dept. of Fish and Game; Recreation and Parks Division, Traffic counter Record, Counter Serial No. 79470. Location Grave Creek at Wigwam*		449
281	snowmobiles	31 day March	over snow	Grave Creek Groomed Trail*	1983	Counter reading difference/ actual use (use by date, day, time, counter reading) 3/1-3/31, 31 days. Total counter 562/2 way traffic = 281.	Montana Dept. of Fish and Game; Recreation and Parks Division, Traffic counter Record, Counter Serial No. 79470. Location Grave Creek at Wigwam*		449
21,143; 31,744; 500;	RVD		Motorcycle travel snowmobile travel All-terrain vehicle travel		1983	"Type of Activity"	2310 Recreation system Planning, Recreation User Reporting, June 19, 1984		28

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10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
308,047; 71,435; 47,625; 68,650; 58,850; 95,543; 31,900 ; 70,500; 35,050; 152,100	RVD			Scenic area (Ten Lakes) in bold	1983	Roads; trails; lakes and ponds; reservoirs; rivers and streams; semi primitive nonmotorized areas; scenic areas, cabinet wilderness; proposed wilderness areas; general undeveloped areas. "In review of the use summary we feel there are excessively high use figures in some RIM elements. " "Dispersed area recreation use summary by kind of site or area"	2310 Recreation system Planning, Recreation User Reporting, June 19, 1984		28
2	snowmobiles	trip	over snow	Big Therriault from Stahl	1983	"Much evidence of snowmoible use in Wolverine-Bluebird drainages and Therriault Lakes area. Wolverine cabin has been used this winter. Two snowmobiles observed entering drainage above Big Therriault Lake from upper Stahl Creek through Therriault Pass".	Montana Dept. of Fish, Wildlife & Parks; Aerial Survey of Ten lakes Basin & Adjacent Areas letter		44
23	snowmobiles	week	over snow	Grave Creek/Wigwam	1983	"This monitor program has shown that a weekly average of 23 snowmobiler have utilized the trail, so far this season"....	2310 Letter to Regional Supervisor Department of Fish, Wildlife & Parks, from Fortine Ranger District, March 23, 1983		126
21	vehicles	day	vehicles	Grave Creek Road/ above Lewis Creek	1983	Non recording portable traffic couts records between 8/31 the 9/23 1983. 475 counter reading, 23 days = 20.7 vehicle/day, Site #8 just above junction			428
16,074	snowmobiles	year	registered	Montana	1983	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
1,037	snowmobiles	84 days	over snow	Grave Creek Groomed Trail*	1983	"228 user from 1-2 to 3-25", Visitor's Register, location assumed to be parking area near Birch Creek. 84 days of 115 day season 1; 2.7/day * 115 = 311 for full season. Estiamte 30-50% user register, 1037 to 622 user estimated.			462
0.19	Estimated participation rates					Estimated participation rates for selected outdoor recreatin activities, during 12 month period, Sept 1 1984 to August 31 1985	The Montana Outdoor Recreation Needs Survey, School of Forestry University of Montana, 1986		98
106,400	RVD		all	forest	1984	10% snowmoiblers on reported 71 miles trail	1988 GAO Survey		125
470,389 755,677 242,387 71,215 72,920	RVD		Developed Rec Roaded Rec Semi-Prim Non-Motor Wilderness Rec Semi-Prim motor		1984	"observed 1984 use levels" - no measure for semi-primitive motorized... therefore the decade 1 estimate of demand prepared by the regional office will be used. That figure is 72,920 RVD.	Kootenai National Forest, Recreation Demand, October 17, 1984, Jerry haugen, Forest Policy Analysist		23
				Stahl	1984	Head of Stahl Creek, Baboon Lake area:Fresh snowmoible tracks over head of basin, snow surevy poles observed on small meadow."	Helicopter survey for caribou over the Ten Lakes Scenic area, April 28 and 29, 1984		454
13,261	snowmobiles	year	registered	Montana	1984	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
80,000	RVD		all	forest	1985	10% snowmoiblers on reported 71 miles trail	1988 GAO Survey		125

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10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
1,200	RVD output		Non-motorized	Ten Lakes WSA	1985	Final Proposed Action Outputs for selected resources; Recreation RVD's, Semiprimitive-nonmotorized	The Kootenai National Forest Ten lakes Montana wilderness study Act Area, report and proposal 11/19/1982	Page 22	372
1,300	RVD output		over snow	Ten Lakes WSA	1985	Final Proposed Action Outputs for selected resources; Recreation RVD's, Semiprimitive-nmotorized (snowmobiling)	The Kootenai National Forest Ten lakes Montana wilderness study Act Area, report and proposal 11/19/1982	Page 22	372
13,000	RVD output		wilderness	Ten Lakes WSA	1985	Final Proposed Action Outputs for selected resources; Recreation RVD's, Primitive (wilderness)	The Kootenai National Forest Ten lakes Montana wilderness study Act Area, report and proposal 11/19/1982	Page 22	372
	snowmobiles	year	registered	Montana	1985	Table 5.1. Number of registered snowmoibles by State (1981-1998) NO DATA	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
90,900	RVD		all	forest	1986	10% snowmoiblers on reported 71 miles trail	1988 GAO Survey		125
16,569	snowmobiles	year	registered	Montana	1986	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
125	snowmobiles	year	over snow	Ten Lakes Recommended wilderness	1987	"The Ten lakes recommended wilderness area also receives some snowmobile use (100-125 snow machines per year) which would be precluded with a wilderness classification.	wilderness Briefing Material, memo to District Rangers and Staff Officers, 2/19/1987	pg 4	270
17,000	RVD		all	Ten Lakes Recommended Wilderness	1987	Resource Uses and Tradeoffs; Recreation Use: Past 10 years average = 17,000 RVD's	wilderness Briefing Material, memo to District Rangers and Staff Officers, 2/19/1987		57
88,000	RVD		all	forest	1987	10% snowmoiblers on reported 71 miles trail	1988 GAO Survey		125
12,068	snowmobiles	year	registered	Montana	1987	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
0.00	RVD percent		ATV/4-Wheel drive vehicle/Motorcycle rider	Fortine Ranger District	1988	8. About what percent of the total RVD's of trail use in your forest(s), if any, were attributable to the following types of users in FY 1988?	US General Accounting Office, survey on trail maintenance and construction in national Forests		125
80	RVD percent		hike	Fortine Ranger District	1988	8. About what percent of the total RVD's of trail use in your forest(s), if any, were attributable to the following types of users in FY 1988?	US General Accounting Office, survey on trail maintenance and construction in national Forests		125
5	RVD percent		stock	Fortine Ranger District	1988	8. About what percent of the total RVD's of trail use in your forest(s), if any, were attributable to the following types of users in FY 1988?	US General Accounting Office, survey on trail maintenance and construction in national Forests		125
5	RVD percent		Hunters	Fortine Ranger District	1988	8. About what percent of the total RVD's of trail use in your forest(s), if any, were attributable to the following types of users in FY 1988?	US General Accounting Office, survey on trail maintenance and construction in national Forests		125
5	RVD percent		over snow	Fortine Ranger District	1988	8. About what percent of the total RVD's of trail use in your forest(s), if any, were attributable to the following types of users in FY 1988?	US General Accounting Office, survey on trail maintenance and construction in national Forests		125
5	RVD percent		X-country ski	Fortine Ranger District	1988	8. About what percent of the total RVD's of trail use in your forest(s), if any, were attributable to the following types of users in FY 1988?	US General Accounting Office, survey on trail maintenance and construction in national Forests		125
50,589	snowmobiles	year	registered	Montana	1988	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
50,000	snowmobiles	year	registered	Montana	1989	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54

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10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
9	Percent		over snow	State	1990	"nine percent snowmobiled in the past year, and 8 percent did so on Forest Service Lands"	Demographic Survey of Western Montana for USDA Forest Service, February 1990		25
20	RVD			Stahl cabin	1990	"Non-fee developed sites; Stahl cabin 20 Recreation Visitors Day's (RVD's)	FY90 D-3 typed paper		128
200	RVD			Wolverine cabin	1990	"non-fee developed sites; Wolverine Cabin 200 Recreation Visitors Day's (RVD's)	FY90 D-3 typed paper		128
13	snowmobiles	day	over snow	Ten Lakes	1990	"Eureka Area, Ten Lakes 12/___/90, 13 Snowmobiles"	Winter Recreation Observations 1990-1991, Lincoln County Sno-Kats	Page 5	124
					1990	Table 3.27 Most important activities participated in by visitor, in percent; On-road bicycling <1, Off-road bicycling <1, Off-Road ORV <1	1990 Montana National Forest Visitor Study, Kootenai National Forest		25
14,500	snowmobiles	year	registered	Montana	1990	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
500	snowmobiles	year	over snow	Grave Creek	1991	"Enclosed is the club's trail grooming agreement with the Fortine Ranger District, which estimated at least 500 snowmobiler user days on the present trail system from mid-Jan through March of this year."	(Appendix L, EA EIS, September 1995)Ten lakes Snowmobile Club, September 12, 1991, letter Forest Service	Page L-23	133
239	snowmobiles	2.4 month	over snow	Grave Creek	1991	Total approximate number (traffic count/2) 1/30-3/15, 43 days, 239 vehicles	"Snowmobile counter on Grave creek Road Readings"		444
14,500	snowmobiles	year	registered	Montana	1991	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
15,142	snowmobiles	year	registered	Montana	1991	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
11,300	snowmobiles	year	registered	Montana	1992	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
16,164	snowmobiles	year	registered	Montana	1992	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
18,099	snowmobiles	year	registered	Montana	1993	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
18,099	snowmobiles	year	registered	Montana	1993	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
917	snowmobiles	year	over snow	Grave Creek Groor	1993	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116

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10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
1,080	snowmobiles	year	over snow	Grave Creek Groor	1993	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
17	percent users		motor	Forest	1993	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
5	percent users		over snow	Forest	1993	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
60	snowmobiles	weekend	over snow	Wolverine	1993	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
18,572	snowmobiles	year	registered	Montana	1994	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
18,572	snowmobiles	year	registered	Montana	1994	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
19,100	snowmobiles	year	registered	Montana	1995	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
20,030	snowmobiles	year	registered	Montana	1995	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
366	snowmobiles	year	over snow	Clarence Bridge	1995	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
887	snowmobiles	year	over snow	Grave Creek @ Cat	1995	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
1,742	snowmobiles	year	over snow	Clarence Corner	1995	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
					1995	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
					1995	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116

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10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
20,252	snowmobiles	year	registered	Montana	1996	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
20,398	snowmobiles	year	registered	Montana	1996	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
20,328	snowmobiles	year	registered	Montana	1997	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
21,647	snowmobiles	year	registered	Montana	1997	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
14,361	snowmobiles	year	registered	Montana	1998	Table 5.1. Number of registered snowmoibles by State (1981-1998)	Fuel Used for Off-Road Recreation: A Reassessment of the Fuel Use Model	30	54
2,450	snowmobiles	year	over snow	Grave Creek Groomed Trail	1998	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
20,401	snowmobiles	year	registered	Montana	1998	Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	Snowmobiling in Montana: A 1998 Update, Figure 1; Number of Registered Snowmoibles, Montana, 1990-1998	14	116
22,000	snowmobiles	year	registered	Montana	1999	estimate from bar graph	Montana Business Quarterly/Winter 2014	19	451
22,500	snowmobiles	year	registered	Montana	2000	estimate from bar graph	Montana Business Quarterly/Winter 2014	19	451
23,000	snowmobiles	year	registered	Montana	2001	estimate from bar graph	Montana Business Quarterly/Winter 2014	19	451
23,000	snowmobiles	year	registered	Montana	2002	estimate from bar graph	Montana Business Quarterly/Winter 2014	19	451
184	People	year	summer	Bluebird trailhead	2003	"Bluebird trailhead, for the years of 00-01 there was an average of 184 sign ins per year. " Hand written note 01- 184, 02- 195, 03-225, sticky note 04-195	Wolverine Trailhead Journal		503
215	People	year	summer	Wolverine Trailhead	2003	"Wolverine Trailhead, The average number of people to register at wolverine trailhead over the last seven (7) years was 215 per year. 226 reg. in 2003". Sticky note 228 people in 2004	Wolverine Trailhead Journal		503
21,000	snowmobiles	year	registered	Montana	2003	estimate from bar graph	Montana Business Quarterly/Winter 2014	19	451
822	snowmobiles	year	registered	Lincoln county	2004		Email from Montana State		246
2,569	snowmobiles	year	registered	Flathead county	2004		Email from Montana State		246
25,000	snowmobiles	year	registered	Montana	2004	estimate from bar graph	Montana Business Quarterly/Winter 2014	19	451
1,029	snowmobiles	year	registered	Lincoln county	2005		Email from Montana State		246
2,392	snowmobiles	year	registered	Flathead county	2005		Email from Montana State		246
26,000	snowmobiles	year	registered	Montana	2005	estimate from bar graph	Montana Business Quarterly/Winter 2014	19	451
1,225	snowmobiles	year	registered	Lincoln county	2006		Email from Montana State		246

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10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
1,750	snowmobiles	year	over snow	Grave Creek Groomed Trail	2006	"Snowmobile numbers for the Grave Creek Trail." reported by club to State. Total counter 3,500/2 way traffic = 1,750	Bob Walker May 24, 2012 State Trail Grant Coordinator		75
3,977	snowmobiles	year	registered	Flathead county	2006		Email from Montana State		246
31,000	snowmobiles	year	registered	Montana	2006	estimate from bar graph	Montana Business Quarterly/Winter 2014	19	451
1,459	snowmobiles	year	registered	Lincoln county	2007		Email from Montana State		246
1,600	snowmobiles	year	over snow	Grave Creek Groomed Trail	2007	"Snowmobile numbers for the Grave Creek Trail." reported by club to State. Total counter 3,200/2 way traffic = 1,600	Bob Walker May 24, 2012 State Trail Grant Coordinator		75
4,752	snowmobiles	year	registered	Flathead county	2007		Email from Montana State		246
1,661	snowmobiles	year	registered	Lincoln county	2008		Email from Montana State		246
2,400	snowmobiles	year	over snow	Grave Creek Groomed Trail	2008	"Snowmobile numbers for the Grave Creek Trail." reported by club to State. Total counter 4,800/2 way traffic = 2,400	Bob Walker May 24, 2012 State Trail Grant Coordinator		75
5,395	snowmobiles	year	registered	Flathead county	2008		Email from Montana State		246
1,948	snowmobiles	year	registered	Lincoln county	2009		Email from Montana State		246
2,650	snowmobiles	year	over snow	Grave Creek Groomed Trail	2009	"Snowmobile numbers for the Grave Creek Trail." reported by club to State. Total counter 5,300/2 way traffic= 2,650	Bob Walker May 24, 2012 State Trail Grant Coordinator		75
6,221	snowmobiles	year	registered	Flathead county	2009		Email from Montana State		246
2,215	snowmobiles	year	registered	Lincoln county	2010		Email from Montana State		246
7,027	snowmobiles	year	registered	Flathead county	2010		Email from Montana State		246
5	people	trip	Forest Service Staff	Ten Lakes WSA	2010	"people encountered on trails by recreation activity"	Wilderenss Character Monitoring, Ten lakes Wilderenss Study Area 2010	page 30	239
53	people	trip	hike	Ten Lakes WSA	2010	"people encountered on trails by recreation activity"	Wilderenss Character Monitoring, Ten lakes Wilderenss Study Area 2010	page 30	239
3	people	trip	stock	Ten Lakes WSA	2010	"people encountered on trails by recreation activity"	Wilderness Character Monitoring, Ten lakes Wilderness Study Area 2010	page 30	239
2	people	trip	mountain bike	Ten Lakes WSA	2010	"people encountered on trails by recreation activity"	Wilderenss Character Monitoring, Ten lakes Wilderenss Study Area 2010	page 25	239
5	people	trip	other	Ten Lakes WSA	2010	"people encountered on trails by recreation activity"	Wilderness Character Monitoring, Ten lakes Wilderness Study Area 2010	page 30	239
3	vehicles	trip	motor bike single track evidence	Ten Lakes WSA	2010	Evidence of Mechanized Use on Trails	Wilderenss Character Monitoring, Ten lakes Wilderenss Study Area 2010, Wilderenss institute, College of Forestry and Conservation, University of Montana	page 25	239
n/a	snowmobiles	year	over snow	Grave Creek Groomed Trail	2010	no data	Bob Walker May 24, 2012 State Trail Grant Coordinator		75

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10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
1,676	snowmobiles	year	over snow	Grave Creek Groomed Trail	2011	"Snowmobile numbers for the Grave Creek Trail." reported by club to State. Total counter 3,351/2 way traffic =1,676	Bob Walker May 24, 2012 State Trail Grant Coordinator		75
2,451	snowmobiles	year	registered	Lincoln county	2011		Email from Montana State		246
7,804	snowmobiles	year	registered	Flathead county	2011		Email from Montana State		246
48,000	snowmobiles	year	registered	Montana	2011	estimate from bar graph	Montana Business Quarterly/Winter 2014	19	451
2,230	snowmobiles	year	over snow	Grave Creek Groomed Trail	2012	"So I did some quick figuring on what might be the actual use now... snowmobile grooming numbers will verify or change these. They are based on an estimate from Ronnie Oropeza of 40-50 snowmobiles on weekends and up to 5 on weekdays.	Betty Holder, Fortine District Ranger		138
2,353	snowmobiles	year	over snow	Grave Creek Groomed Trail	2012	"The following are what I have from each season - 2011-2012 5069 users counted". Numbers for snowmobile grooming application. Total counter 5069/2 way traffic = 2,535.	Twila Webb, Ten Lakes Snowmobile Club, 4/11/2016		484
2,535	snowmobiles	year	over snow	Grave Creek Groomed Trail	2012	"Snowmobile numbers for the Grave Creek Trail." reported by club to State 2011-2012. Total counter 5,069/2 way traffic=2,535	Bob Walker May 24, 2012 State Trail Grant Coordinator		75
42	people	month	hike	Clarence Creek TH	2012	trail register (7/8 -8/3)/ 42 people, 12 parties, 27 days			337
16	people	month	hike	Cat Creek TH	2012	Trail register 7/3 - 8/30; 16 people, 6 parties, 59 days			338
72	people		hike	Stahl Peak/Clarence Rich TH	2012	Trail register 6/9 - 9/20; 72 people, 3 parties, 105 days			341
53,000	snowmobiles	year	registered	Montana	2012	estimate from bar graph	Montana Business Quarterly/Winter 2014	19	451
850	snowmobiles	year	over snow	Grave Creek Groomed Trail	2013	"The following are what I have from each season - 2012-2013 1,699 users counted (low snow season)". Numbers for snowmobile grooming application. Total counter 1,699/2 way traffic = 850.	Twila Webb, Ten Lakes Snowmobile Club, 4/11/2016		484
850	snowmobiles	year	over snow	Grave Creek Groomed Trail	2013	"Snowmobile numbers for the Grave Creek Trail." reported by club to State. Total counter 1,699/2 way traffic =850	Bob Walker May 24, 2012 State Trail Grant Coordinator		75
16	people	season	hike	Cat Creek TH	2013	Trail register 2/1 - 8/13; 16 people, 11 parties, season			338
400	people	season	hike	Bluebird trailhead	2013	Trail register 6/30 - 9/4; over 400 people, 61 parties, season			339
20	people		hike	Rainbow TH	2013	Trail register 7/13 - 9/4; 20 people, 9 parties, 48 days			340
130	people	summer	hike	Stahl Peak/Clarence Rich TH	2013	Trail register 6/15 - 9/2; 130 people, 38 parties, 80 days			341
155	people		hike	Wolverine Trailhead	2013	Trail register 6/29 - 9/1, 155 people, 42 parties, 65 days			343
56,000	snowmobiles	year	registered	Montana	2013	estimate from bar graph	Montana Business Quarterly/Winter 2014	19	451

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10,000	snowmobiles		sold	US	1962	Historic snowmobile sales			437
1,535	snowmobiles	year	over snow	Grave Creek Groomed Trail	2014	"The following are what I have from each season - 2013-2014 3,069 users counted". Numbers for snowmoible grooming application. Total counter 3,069/2 way traffic = 1,535.	Twila Webb, Ten Lakes Snowmobile Club, 4/11/2016		484
n/a	snowmobiles	year	over snow	Grave Creek Groomed Trail	2015	"The following are what I have from each season - 2014-2015 0 users counted (counter malfunctioned)". Numbers for snowmoible grooming application.	Twila Webb, Ten Lakes Snowmobile Club, 4/11/2016		484